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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/042,520 | 01/09/2002 | Philippe Coronel | 00GR32554365 | 6898 |
| 27975 | 7590 | 10/21/2003 | EXAMINER | |
| ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST P.A. 1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE P.O. BOX 3791 ORLANDO, FL 32802-3791 | | | KESHAVAN, BELUR V | |
| | | ART UNIT | PAPER NUMBER | |
| | | 2825 | | |

DATE MAILED: 10/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|--|------------------------------|---|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/042,520 | CORONEL ET AL. | |
| | Examiner Belur V Keshavan | Art Unit 2825 | |
| <i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i> | | | |
| Period for Reply | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>2</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. | | | |
| <ul style="list-style-type: none"> - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | |
| Status | | | |
| 1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>22 September 2003</u> . 2a) <input type="checkbox"/> This action is FINAL . 2b) <input type="checkbox"/> This action is non-final. 3) <input checked="" type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | |
| Disposition of Claims | | | |
| 4) <input checked="" type="checkbox"/> Claim(s) <u>11-31 and 33-37</u> is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) <input type="checkbox"/> Claim(s) <u>11-31 and 33-35</u> is/are allowed. 6) <input type="checkbox"/> Claim(s) _____ is/are rejected. 7) <input type="checkbox"/> Claim(s) <u>36 and 37</u> is/are objected to. 8) <input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement. | | | |
| Application Papers | | | |
| 9) <input type="checkbox"/> The specification is objected to by the Examiner. 10) <input checked="" type="checkbox"/> The drawing(s) filed on <u>01 September 2002</u> is/are: a) <input type="checkbox"/> accepted or b) <input checked="" type="checkbox"/> objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) <input type="checkbox"/> The proposed drawing correction filed on _____ is: a) <input type="checkbox"/> approved b) <input checked="" type="checkbox"/> disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) <input type="checkbox"/> The oath or declaration is objected to by the Examiner. | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | |
| 13) <input checked="" type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) <input checked="" type="checkbox"/> All b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of: 1. <input checked="" type="checkbox"/> Certified copies of the priority documents have been received. 2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____. 3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) <input type="checkbox"/> The translation of the foreign language provisional application has been received. 15) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | |
| Attachment(s) | | | |
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____. 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6) <input type="checkbox"/> Other: _____. | |

DETAILED ACTION

Status Of Claims

Claims 11-31 and 33-37 are in the application. Claims 32 and 13 have been cancelled and amended respectively by the applicants.

Conclusion

This application is in condition for allowance except for the following formal matters:

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the following features must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

In claim 12, a plurality of access transistors in the substrate is not shown in the drawings.

In claims 15 and 25, the DRAM comprising embedded DRAM is not shown in the drawings.

In claim 24, a plurality of access transistors in a substrate is not shown in the drawings.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 36 and 37 are objected to because of the following informalities: Claim 36 recites the limitation “wherein a wet solution comprising at least one of KOH and NH₄OH is used for removing the conductive layer”. There is insufficient antecedent basis for “the conductive layer” in this limitation in the claim 36.

Claim 37 recites the limitation “the remainder of the conductive layer is performed by a plasma ion etching”. There is insufficient antecedent basis for “the conductive layer” in this limitation in the claim 37.

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Allowable Subject Matter

Claims 11-31 and 33-35 are indicated as being allowable.

Claims 36 and 37 would be allowable if rewritten to overcome the objections set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: The primary reason for the indication of the allowability of claims 11-31 and 33-37 is the inclusion therein, in combination as currently claimed, of the limitation of a method of fabricating DRAM comprising inter alia a plurality of memory cells connected to bit lines and word lines. The limitations are found in claims 11-31 and 33-37 and is neither disclosed nor taught by the prior art of record alone or in combination.

Remarks

The examiner notes applicants' remarks regarding the objections to drawings in the office action of June 12, 2003. The drawings are objected to under 37 CFR 1.83(a). The drawings must

show every feature of the invention specified in the claims or the feature(s) canceled from the claims(s). No new matter should be entered.

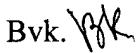
The examiner notes the amendment to claim 13. The examiner further notes the cancellation of claim 32 to over come the objection to claims 31-37 as being substantial duplicate of claims 24-30.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belur V Keshavan whose telephone number is 703 306 5985. The examiner can normally be reached on 8-4:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 703 308 1323. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

Bvk. 
October 6, 2003.

Belur V. Keshavan
Examiner. Art Unit 2825.


MATTHEW SMITH
SUPERVISORY ART EXAMINER
TELEPHONE 703-272-2800